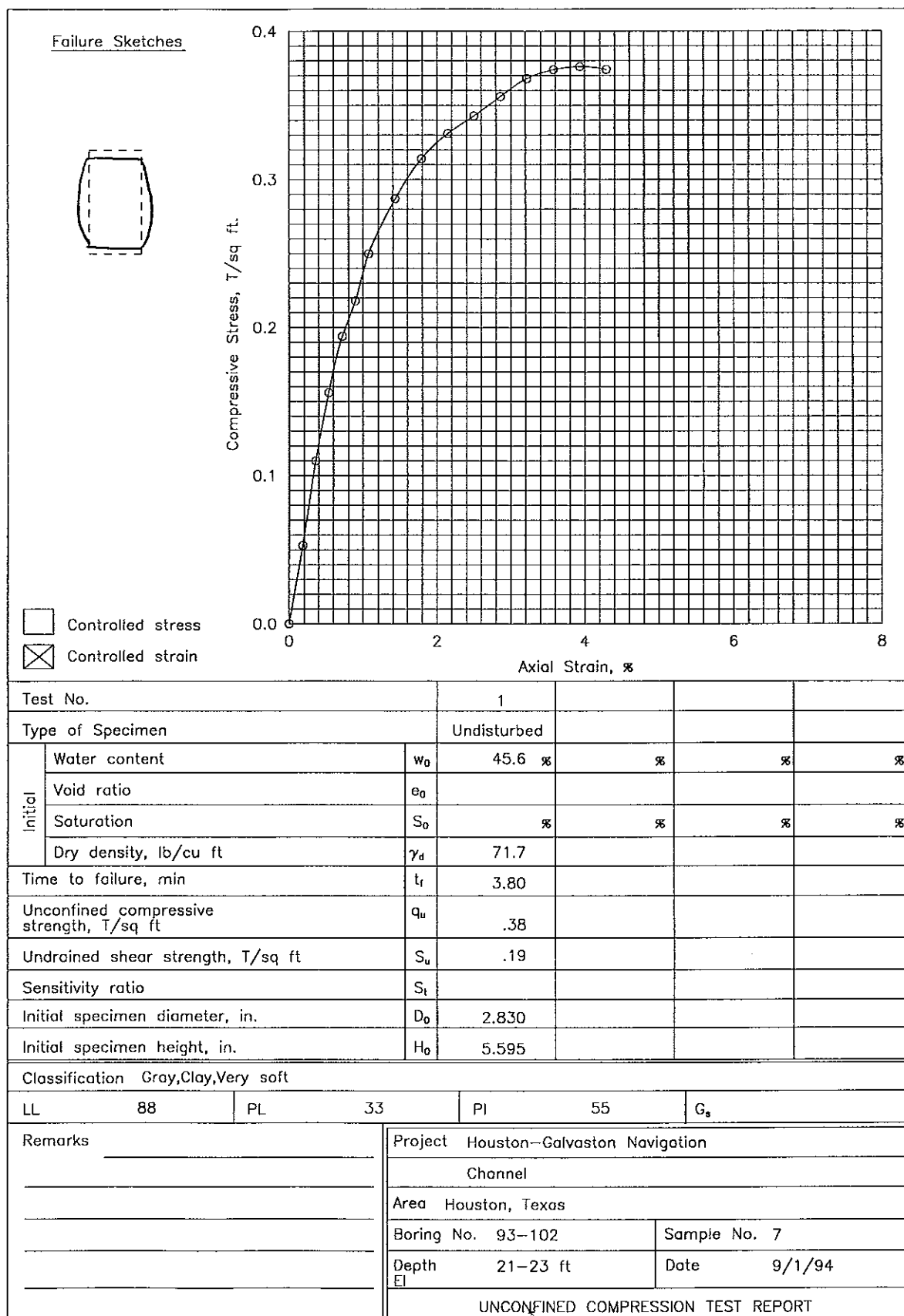




U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET		SAMPLE NO.	PEN./TORVANE SPT.-BLOW COUNT	COLOR	MATERIAL TYPE	CONSIS- TENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
BORING NO. <u>93-102</u> DATE: BEGIN <u>8/2/94</u> PAGE <u>1/2</u> JOB NO. <u>946783-1</u> COMPLETE <u>8/2/94</u> Thin Walled Tube PROJECT <u>HOUSTON-GALVESTON Navigation Channel</u> ☒ 3" ☐ 6" LOCATION <u>DISPOSAL AREA #16</u> ELEVATION OF HOLE _____ MANUFACTURER'S DESIGNATION OF DRILL RIG <u>Ardco K4x4, C-1000 Marsh Buggy</u> GROUNDWATER: DEPTH <u>0</u> ft., ELEV. _____ ft., at end of Drilling WEATHER <u>SUNNY / HOT</u> DRILLER <u>DAVID GREGUREK</u> LOGGER <u>Willie Barnes / Rusty Teehan</u>								
Torvane Reading 0 J 1 X 2 X 3 X 4 X 5 V 6 V 7 J 8 X 9 X 10 X 11 3 1/6 5 7/9 3 1/8 1 1/4 0.00 0.01 0.00 0.00 2 1/2 3 2/3 2 3/4 LIGHT GRAY LIGHT GRAY LIGHT GRAY GRAY Gray GRAY GRAY GRAY GRAY GRAY SAND SAND SAND SAND SAND CLAY CLAY SAND SAND SAND MEDIUM DENSE MEDIUM DENSE MEDIUM DENSE MEDIUM DENSE LOOSE VERY SOFT VERY SOFT LOOSE LOOSE LOOSE SILTY SILTY SILTY SILTY SILTY silty silty SILTY SILTY SILTY Jar Sample 0'-2' - w/ shell Fragments - w/ shell Fragments - w/ shell Fragments - w/ shell Fragments CLAY AT 19' Jar Sample 23'-25' w/ shell fragments w/ shell fragments w/ shell fragments								

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET	SAMPLE NO.	PEN./TORVANE SPT.-BLOW COUNT	BORING NO. <u>93-102</u> DATE: BEGIN <u>8/2/94</u> PAGE <u>2 / 2</u> JOB NO. <u>946783.1</u> COMPLETE <u>8/2/94</u> Thin Walled Tube PROJECT <u>Houston-Galveston Navigation Channel</u> ☒ 3" ☐ 6" LOCATION <u>DISPOSAL AREA # 16</u> ELEVATION OF HOLE _____ MANUFACTURER'S DESIGNATION OF DRILL RIG <u>Ardea K444, C-1000 Marsh Buggy</u> GROUNDWATER: DEPTH <u>2</u> ft., ELEV. _____ ft., at end of Drilling WEATHER <u>SUNNY / HOT</u> DRILLER <u>DAVID GREGORY</u> LOGGER <u>Willie Barnes / Rusty Teehan</u>				
			COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
-35-							
-40-	X 12	2/2/4	GRAY	SAND	LOOSE	silty	w/ Shell Fragments Torvane Multiplier 0.2
-45-							
-50-							
-55-							
-60-							
-65-							
-70-							

Project: Fresno-Galveston Navigation Channel

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-94-C-0040Boring No. 93-102

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	M c (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	P L (%)	Mechanical Analysis % Passing					Torvane Shear Strength (tsf)	q u (tsf)
											#4	#10	#40	#100	#200		
1	0 - 2			Gray,Sand,Medium dense,Silty,w/shell fragments	S M												
2	2-3.5		11	Gray,Sand,Medium dense,Silty,w/shell fragments	S M												
3	7-8.5		16	Gray,Sand,Medium dense,Silty,w/shell fragments	S M						97.8*	97.7*	95.5*	88.0	30.7		
4	12-13.5		14	Gray,Sand,Medium dense,Silty,w/shell fragments	S M												
5	17-18.5		6	Gray,Sand,Loose,Silty	S M												
6	19-21	0.25		Gray,Clay,Soft	C H	40.1											
7	21-23	0.25		Gray,Clay,Soft	C H	45.6	71.7	104.4	88.0	33.0	100.0	100.0	100.0	99.8	98.6		0.38
8	23-25			Gray,Sand,Loose,Silty	S M												
9	25-26.5		5	Gray,Sand,Loose,Silty,w/shell fragments	S M												
10	30-31.5		5	Gray,Sand,Loose,Silty,w/shell fragments	S M						95.8*	93.7*	91.4*	75.3	15.3		
11	35-36.5		7	Gray,Sand,Loose,Silty,w/shell fragments	S M												
12	38.5-40		6	Gray,Sand,Loose,Silty,w/shell fragments	S M												

S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classification, M c : Moisture Content

q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

* : Material retained are shell fragments